

Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1.(Currently Amended) A separator subassembly for a coiled electrode-type electrochemical cell having an anode and a cathode, comprising:
an elongated separator layer; and
means for protecting against a short circuit condition between the anode and the cathode as a material that forms the anode becomes depleted during cell discharge including a spacer layer coupled joined to a portion of the elongated separator layer at a location along the length of the separator layer so that when an anode subassembly is enveloped within the elongated separator layer, the spacer layer aligns with and overlaps a surface-mounted anode current collector of the anode subassembly, and wherein the spacer layer covers a single side of the anode subassembly and leaves a leading end of the anode subassembly exposed.
2. (Original) A separator subassembly according to claim 1, wherein opposing sides of the elongated separator layer couple together to form a sealed pouch around the anode subassembly.
3. (Original) A separator subassembly according to claim 2, wherein the spacer layer is relatively thicker than the separator layer.
4. (Original) A separator subassembly according to claim 3, wherein a portion of the separator layer approximately the size of the spacer layer is absent from said separator layer, and further comprising a mechanical or chemical bond disposed along at least a portion of a common periphery region between said separator layer and said spacer layer.

5. (Original) A separator subassembly according to claim 1, wherein said separator layer includes a longitudinal indicia or a longitudinal crease for receiving said a relatively thin edge of the anode assembly.

6. (Previously Presented) A separator subassembly according to claim 5, further comprising an aperture corresponding to an electrical tab member of said anode assembly, said aperture disposed adjacent the spacer layer and in alignment with said longitudinal indicia or said longitudinal crease.

7. (Previously Presented) A separator subassembly according to claim 1, further comprising at least two spacer layers, each of said at least two discrete spacer layers corresponding to, aligning with, and overlapping, respectively, a one of at least two surface-mounted current collectors coupled to the anode subassembly.

8. (Previously Presented) A separator subassembly according to claim 1, wherein the anode subassembly further comprises:

a lithium material; and

wherein the surface-mounted current collector couples to the lithium material.

9. (Previously Presented) A separator subassembly according to claim 8, wherein the surface-mounted current collector comprises a one of: a copper material, a nickel material, a titanium material.

10. (Withdrawn) A method of applying a separator subassembly to an anode subassembly, comprising:

providing an elongated separator layer;

coupling a spacer layer to a portion of the elongated separator layer;

folding the separator layer longitudinally so that an adequate amount of separator material exists on each side of the longitudinal fold to receive and envelop an elongated anode subassembly;

aligning a surface-mounted anode current collector of the anode subassembly with the spacer layer; and

bonding corresponding opposing portions of the separator layer together.

11. (Withdrawn) A method according to claim 10, wherein the spacer layer is relatively thicker than the separator layer.

12. (Withdrawn) A method according to claim 10, wherein the anode subassembly comprises a lithium material and the surface-mounted current collector comprises a one of: a copper material, a nickel material, a titanium material.

13. (Currently amended) A separator subassembly according to claim 1,
wherein the elongated separator layer comprises ~~comprising:~~

an elongated, generally rectangular sheet of dielectric separator material, said sheet of dielectric separator material having a portion removed that corresponds in dimension to a surface-mounted current collector of an anode subassembly for a coil-type electrochemical cell; and

a portion of the ~~spacer material~~ layer is bonded in place of the removed portion ~~and bonded to the periphery thereof.~~

14. (Currently Amended) A separator subassembly according to claim 13, wherein the portion of ~~spacer material~~ layer is disposed along an edge of the sheet of dielectric separator material.

15. (Original) A separator subassembly according to claim 14, further comprising an aperture disposed along a longitudinal crease or a longitudinal indicia and

adjacent an edge of the portion of spacer material, wherein said aperture is adapted to receive an electrically conducting tab that couples to the surface-mounted current collector.

16. (Cancelled)